

~~Please amend the following claims:~~

~~Claim 12, line 3, after "," insert -- the improvement comprising: --; line 4, before "said" insert -- forming --; same line, for "being" read -- from --.~~

~~Claim 20, last line, cancel "etc.".~~

~~Claim 25, line 3, after "," insert -- the improvement comprising: --.~~

~~Claim 25, line 4, cancel "said" and insert -- forming --; same line, cancel "being" and insert -- from --.~~

~~Claim 28, cancel last two lines.~~

~~Claim 31, line 2, after "," insert -- the improvement comprising: --; same claim, last line, cancel "etc."~~

~~Please add the following claims:~~

~~33. A process for cleaning articles in which an active cleaning liquid composition is brought into contact with articles to be cleaned, the improvement comprising:~~

forming said active cleaning liquid composition from a mixture of more than 65% by weight water and at least one additional component with molecules having hydrophilic and lipophilic groups,

said component having the weight ratio to water in the range of 1.0 to 35.0:99.0 to 65.0,

and said component being selected to have an immiscibility gap at a selected temperature range capable of forming separate liquid phases,

establishing said separate phases of said composition within said immiscibility gap,

forming an emulsion of said composition while said composition is immiscible within said temperature range,

forming said emulsion by agitation,

cleaning said articles by contacting the articles to be cleaned with said emulsion and,

removing both lipid and ionic fouling substances from said articles through said contacting with said emulsion.

34. The process of Claim 33 including,

said composition being azeotropic.

35. The process of Claim 34 including,

said composition including dipropylene glycol mono-n-propylether.

36. The process of Claim 33 including,

said temperature range being between 20°C and 100°C under normal pressure.

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37. A process for cleaning articles in which an active cleaning liquid composition is brought into contact with articles to be cleaned, the improvement comprising:

forming said active cleaning liquid composition from a mixture of water and at least one additional component with molecules having hydrophilic and lipophilic groups,

said composition having an immiscibility gap at a selected temperature range capable of forming separate phases,

establishing said separate phases of said composition within said immiscibility gap,
forming an emulsion of said composition while said composition is immiscible within said temperature range,

forming said emulsion by agitation of said composition,

cleaning said articles by contacting the articles to be cleaned with said emulsion and,

removing both lipid and ionic fouling substances from said articles.

38. The process of Claim 37 including,
said composition being azeotropic.

39. The process of Claim 37 including,
said agitation being performed by ultrasound.

40. The process of Claim 37 including,
said composition being azeotropic,
said separate phases of said composition within
said immiscibility gap being formed by heating said

composition to a temperature within said temperature range.

41. The process of Claim 37 including,
said mixture being in a weight ratio of said
additional component to water of 0.05-99.95 to 99.5-
0.05.

42. The process as described in Claim 37 wherein
said additional component of the active cleaning liquid
is an organic component of the general formula:



in which

R¹ and R³ are each selected from the group
consisting of H, straight-chain or branched, saturated
or unsaturated C₁ to C₁₈ alkyl groups in which one or
more nonadjacent -CH₂- groups may be replaced by -O-,
saturated or unsaturated cyclic C₁ to C₈- groups in
which one or more nonadjacent
-CH₂- groups may be replaced by -O-, hydroxy, C₁ to C₈
alkoxy, and amino in which one or both hydrogen(s) may
be replaced by C₁ to C₈ alkylgroups; and

X is selected from the group consisting of
-0-, (-C(=O)), -C(=O)-0-, -NH-, -NR¹, -N(OH)-, straight-
chain or branched alkylene C₁ to C₈ groups in which one
or more nonadjacent -CH₂- groups may be replaced by -0-
and n represents whole integers.

43. The process of Claim 37 including,
said miscibility gap is in the range of 0°C to the
temperature of a phase transition.

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44. The process of Claim 37 including,
said temperature range being 20°C to 110°C.

45. The process of Claim 41 including,
said weight ratio is 4.0-15.0 to 96.0-85.0.

46. The process of Claim 37 wherein,
said organic component is selected from the group
consisting of alcohols, glycols, amines, ethers, glycol
ethers, esters and ketones.